

Developer Interview Tasks • November 2023

We invite you to complete **two** out of the three tasks provided below. Use JavaScript, and incorporate HTML and CSS as necessary. We suggest you choose tasks that best showcase your capabilities and strengths as a developer.

Once done, please compile and submit your solutions together. If you have any queries or need further clarification, don't hesitate to contact us at developers@foleyprep.com.

Task 1: Student Report

Retrieve the report and test data from [this link](#). Based on the retrieved tests, select a test and record to generate a report in the browser that loosely resembles the provided example below.

#	Correct	Student	Topic	Common Responses Heatmap				Peer Performance
1	A	B	Context	A	B	C	D	35%
2	A	✓	Inference	A	B	C	D	34%
3	C	B	Inference	A	B	C	D	29%
4	B	D	Best Evidence	A	B	C	D	17%
5	A	✓	Main Idea/Primary Purpose	A	B	C	D	33%
6	B	✓	Context, Main Idea/Primary Purpose	A	B	C	D	41%

Task 2: Websocket Game Lobby

Imagine creating an online game where users can join multiple lobbies through websockets. Without drafting any code, articulate in approximately 300 to 500 words how you would implement this. Be specific about implementation methods, and elaborate on relevant data structures, or extensions. Include any diagrams or illustrations in your description to clarify your approach.

Task 3: Sessions

Write a JavaScript function to fetch JSON data containing user account information from the following:

[User Data Endpoint](#) and [Session Data Endpoint](#)

Create a second JavaScript function that calculates the number of “sessions” and “mocks” remaining for each user based on the fetched data.

Submission

Consolidate all your code files, images, and other assets into a GitHub repository.

For Tasks 1 and 3:

Ensure you include all your code.

Attach screenshots showcasing the output of your programs.

For Task 2:

Upload a text document with your detailed description. Append any accompanying images or diagrams that aid in explaining your approach.

Email the [link](#) to your GitHub repository and any [additional notes or files](#) to developers@foleyprep.com.